

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

LAIRD et al.

Atty. Ref.: 3691-668

Serial No. To be Assigned

Group:

Filed: March 18, 2004

Examiner:

For: HEAT TREATABLE LOW-E COATED ARTICLES AND
METHODS OF MAKING SAME BY SPUTTERING AG IN
OXYGEN INCLUSIVE ATMOSPHERE

* * * * *

March 18, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

- | | | |
|-------------------------------------|--|----------|
| <input checked="" type="checkbox"/> | 1. PTO-1449 Pursuant to 37 CFR 1.97(b)
[within 3 months of filing or prior to 1st Office Action] | N/C |
| <input type="checkbox"/> | 2. Statement Pursuant to 37 CFR 1.97(c)
[before Final Office Action and Allowance] | N/C |
| <input type="checkbox"/> | 3. Fee Payment Pursuant to 37 CFR 1.97(c)
[before Final Office Action and Allowance] | \$180.00 |
| <input type="checkbox"/> | 4. Pursuant to 37 CFR 1.97(d)
[before Issue Fee payment] | \$180.00 |

The following are submitted in the above-identified application in compliance with 37 C.F.R. §§ 1.97 and 1.98:

- ☒ 5. A list of documents on Form PTO-1449. Actual copies of the references listed on the attached form PTO-1449 are not included herewith in accordance with MPEP §609, these references being previously submitted in any and all of the parent applications. The parent application includes U.S. application Serial No. 10/243,952.

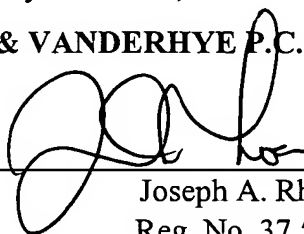
This paper is submitted in accordance with:

- ☒ 6. 37 CFR 1.97(b): [within 3 months of filing or prior to 1st Office Action]
- ☐ 7. 37 CFR 1.97(c): [before Final Office Action and Allowance, whichever is earlier]; and
- ☐ a) The required Statement made in item 9 below; or
- ☐ b) The \$180.00 fee specified in 37 CFR §1.17(p) for submission of this Information Disclosure Statement is authorized in item 10 below.
- ☐ 8. 37 CFR §1.97(d): [before issue fee payment]; and
- ☐ a) The fee (\$180.00) required by 37 CFR §1.17(p) is authorized in item 10 below; and
- ☐ b) The required Statement is stated in item 9 below.
- ☐ 9. Statement under 37 CFR 1.97(e)
- ☐ a) The undersigned attorney of record hereby certifies under 37 C.F.R. §1.97(e) that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement (each item contained in this IDS was the first citation of that item by a foreign patent office in a counterpart foreign application which occurred no more than three months prior to the filing of this IDS); or
- ☐ b) No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement, after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.
- ☒ 10. Please charge all applicable fees associated with the submission of this Information Disclosure Statement and any other fees applicable to this application to Deposit Account No. 14-1140. An original and one (1) copy of this document are enclosed.

Respectfully submitted,

NIXON & VANDERHYE P.C.

By: _____



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Serial No. To be Assigned

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INFORMATION DISCLOSURE CITATION

ATTY. DOCKET NO.

3691-668

SERIAL NO.

To be Assigned

~~APPLICANT~~

LAIRD et al.

(Use several sheets if necessary)

FILING DATE

March 18, 2004

GROUP

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

							TRANSLATION	
DOCUMENT			DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
		WO 01/66483	9/2001	WIPO				
		WO 02/04375	1/2002	WIPO				
		WO 99/64362	12/1999	WIPO				
		195 33 053	4/1997	DE				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

		U.S. Patent Application Serial No. 10/243,952 filed September 16, 2002
		XP-002267135, "Method Manufacture Laminate Component Display Device Interposed Oxide Film Silver Group Material Substrate Silver System Film Contain Silver Group Material", June 17, 2003
		International Search Report dated January 29, 2004
*Examiner		Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

**INFORMATION DISCLOSURE
CITATION**

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LAIRD et al.

(Use several sheets if necessary)

FILING DATE

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	3,843,405	10/1974	Bourg	117	217	
	6,014,872	1/2000	Hartig et al.	65	58	
	5,770,321	6/1998	Hartig et al.	428	622	
	5,557,462	9/1996	Hartig et al.	359	585	
	5,800,933	9/1998	Hartig et al.	428	622	
	5,563,734	10/1996	Wolfe et al.	359	360	
	5,584,902	12/1996	Hartig et al.	65	32.4	
	5,942,338	8/1999	Arbab et al.	428	623	
	4,898,789	2/1990	Finley	428	623	
	4,413,877	11/1983	Suzuki et al.	350	1.7	
	5,834,103	11/1998	Bond et al.	428	216	
	5,201,926	4/1993	Szczyrbowski et al.	65	60.2	
	5,514,476	5/1996	Hartig et al.	428	426	
	5,344,718	9/1994	Hartig et al.	428	623	
	5,229,194	7/1993	Lingle et al.	428	216	
	4,960,645	10/1990	Lingle et al.	428	216	

FOREIGN PATENT DOCUMENTS

						TRANSLATION	
DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS		YES	NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

	XP-001073840 "Preparation de Couches Minces DE Ag ₂ O ET Action DE Certains Gaz Sur Celles-CI", Mitaray et al., Thin Solid Films, 46 (1977) pgs. 201-208
	XP-002202187 "The Role of Neutral Oxygen Radicals in the Oxidation of Ag Films", Schmidt et al., Thin Solid Films 281-282 (1996), pgs. 105-107
	"Adhesion of Silver Films to Ion-Bombarded Zirconia", ERCK, Vol. 47, 8, pgs. 640-644
	"Ion Beam Mixing of Silver-Magnesium Oxide Multilayers", Fuchs et al., Thin Solid Films 165 (1988) pgs. 347-358
	"Ion Assisted Deposition of Silver" Thin Films, Lee et al., Thin Solid Films 359 (2000) pgs. 95-97
	"Swift Heavy Ion-Induced Modification of Metallic" Thin Films and Multilayers, GUPTA, Vacuum 58 (2000) pgs 16-32
	"Roughness Modification of Surfaces Treated by a Pulsed Dielectric Barrier Discharge", Dumitrascu et al., April 5, 2002, pgs. 127-134
	"MeV Heavy Ion-Induced Adhesion of Thin Silver Film to Tantalum", QIU et al., 1991, pgs. 367-372
	PROCEEDINGS Coating Technology Symposium, Maui, Feb. 3-6, 1987 " Airco, ROSS et al.

*Examiner

Date Considered

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Form PTO-FB-A820 (Also PTO-1449)